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Boahen, K.A.;

Circuits and Systems II: Analog and Digital Signal Processing, IEEE Transactions on [see also Circuits and Systems II: Express Briefs, IEEE Transactions on] , Volume: 47 , Issue: 5 , May 2000
 Pages:416 - 434

[\[Abstract\]](#) [\[PDF Full-Text \(888 KB\)\]](#) IEEE JNL

2 A VLSI crossbar switch with wrapped wave front arbitration

Delgado-Frias, J.G.; Ratanpal, G.B.;

Circuits and Systems I: Fundamental Theory and Applications, IEEE Transactions on [see also Circuits and Systems I: Regular Papers, IEEE Transactions on] , Volume: 50 , Issue: 1 , Jan. 2003
 Pages:135 - 141

[\[Abstract\]](#) [\[PDF Full-Text \(736 KB\)\]](#) IEEE JNL

3 SAMBA-bus: A high performance bus architecture for system-on-chips

Ruibing Lu; Cheng-Koh Koh;

Computer Aided Design, 2003. ICCAD-2003. International Conference on , 9-13 Nov. 2003
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[\[Abstract\]](#) [\[PDF Full-Text \(475 KB\)\]](#) IEEE CNF

4 A Burst-Mode Word-Serial Address-Event Link—III: Analysis and Test Results

Boahen, K.A.;

Circuits and Systems I: Regular Papers, IEEE Transactions on [see also Circuits and Systems I: Fundamental Theory and Applications, IEEE Transactions on] , Volume: 51 , Issue: 7 , July 2004

Pages:1292 - 1300

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5 Fuzzy Logic Arbiters for Multiple-Bus Multiprocessor Systems

Diab, H.B.;

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Pages:281 - 292

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7 Implementation of a self-timed segmented bus

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11 An efficient memory arbitration algorithm for a single chip MPEG2 AV decoder

Takizawa, T.; Hirasawa, M.;

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Rovetta, S.; Zunino, R.;

Industrial Electronics, IEEE Transactions on , Volume: 46 , Issue: 4 , Aug. 1999
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Josephs, M.B.; Yantchev, J.T.;

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Very Large Scale Integration (VLSI) Systems, IEEE Transactions on , Volume: 2 , Issue: 3 , Sept. 1994

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[\[Abstract\]](#) [\[PDF Full-Text \(584 KB\)\]](#) IEEE JNL**17 Fault-tolerant design strategies for high reliability and safety***Vaidya, N.F.; Pradhan, D.K.;*

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[\[Abstract\]](#) [\[PDF Full-Text \(1000 KB\)\]](#) IEEE JNL**18 Symmetric crossbar arbiters for VLSI communication switches***Tamir, Y.; Chi, H.-C.;*

Parallel and Distributed Systems, IEEE Transactions on , Volume: 4 , Issue: 1 , Jan. 1993

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[\[Abstract\]](#) [\[PDF Full-Text \(1300 KB\)\]](#) IEEE JNL**19 A single QFP timing discriminator***Ho, H.L.; Lee, G.S.; Ruby, R.C.; Barfknecht, A.T.;*

Applied Superconductivity, IEEE Transactions on , Volume: 3 , Issue: 1 , Mar 1993

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Pages:696 - 704

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21 A fault-tolerant strategy for hierarchical control in distributed computing systems

Goyer, P.; Momtahan, P.; Selic, B.;

Fault-Tolerant Computing, 1990. FTCS-20. Digest of Papers., 20th International Symposium , 26-28 June 1990

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Rojas-Cessa, R.; Oki, E.; Chao, H.J.;

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Nakano, K.; Olariu, S.; Zomaya, A.Y.;

Parallel and Distributed Systems, IEEE Transactions on , Volume: 13 , Issue: 12 , Dec. 2002

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25 Uniform leader election protocols for radio networks

Nakano, K.; Olariu, S.;

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26 60 Gbps throughput demonstration of an asynchronous SFQ-pulse arbitration circuit

Yorozu, S.; Kameda, Y.; Tahara, S.;

Applied Superconductivity, IEEE Transactions on , Volume: 11 , Issue: 1 , March 2001

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27 A communication architecture tailored for analog VLSI artificial neural networks: intrinsic performance and limitations

Mortara, A.; Vittoz, E.A.;

Neural Networks, IEEE Transactions on , Volume: 5 , Issue: 3 , May 1994

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Simmons, G.J.;

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30 Decentralized arbiter design for a synchronous hierarchical bus multiprocessor system

Alam, M.S.; Karim, M.A.;

Aerospace and Electronics Conference, 1992. NAECON 1992., Proceedings of the IEEE 1992 National , 18-22 May 1992

Pages:187 - 192 vol.1

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Jianying Zhou, Robert Deng

April 2000 **ACM SIGCOMM Computer Communication Review**, Volume 30 Issue 2Full text available:  pdf(586.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

An important feature of digital signatures is to serve as non-repudiation evidence. To be eligible as non-repudiation evidence, a digital signature on an electronic document should remain valid until its expiry date which is specified by some non-repudiation policy. As signature keys may be compromised and the validity of signatures may become questionable, additional security mechanisms need to be imposed on digital signatures. This paper examines the mechanisms for maintaining the validity of ...

Keywords: digital signature, non-repudiation, secure electronic commerce**2 [MULTISAFE—a modular multiprocessing approach to secure database management](#)**

Robert P. Trueblood, H. Rex Hartson, Johannes J. Martin

September 1983 **ACM Transactions on Database Systems (TODS)**, Volume 8 Issue 3Full text available:  pdf(2.00 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the configuration and intermodule communication of a MULTImodule system for supporting Secure Authorization with Full Enforcement (MULTISAFE) for database management. A modular architecture is described which provides secure, controlled access to shared data in a multiuser environment, with low performance penalties, even for complex protection policies. The primary mechanisms are structured and verifiable. The entire approach is immediately extendible to distributed pr ...


Keywords: abstract data types, access control, back-end database, intermodule communication, secure database**3 [Designing government agents for constitutional compliance](#)**

Carey Heckman, Alex Roetter

April 1999 **Proceedings of the third annual conference on Autonomous Agents**Full text available:  pdf(1.07 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**4 [Synchronization in Distributed Programs](#)**

Fred B. Schneider

April 1982 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 4 Issue 2

Full text available:  [pdf\(1.56 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 Fundamental challenges in mobile computing

M. Satyanarayanan

May 1996 **Proceedings of the fifteenth annual ACM symposium on Principles of distributed computing**


Full text available:  [pdf\(725.96 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Negotiation behavior during requirements specification

W. N. Robinson

February 1990 **Proceedings of the 12th international conference on Software engineering**


Full text available:  [pdf\(1.03 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Authentication services for computer networks and electronic messaging systems

Keok Auyong, Chye-Lin Chee

July 1997 **ACM SIGOPS Operating Systems Review**, Volume 31 Issue 3

Full text available:  [pdf\(1.03 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

The paper surveys the authentication services used by modern computer systems and presents the major operational authentication services employed by commercial companies, banking as well as government departments. As distributed system services are susceptible to a variety of threats mounted by intruders as well as legitimate users of the system, password-based authentication is not suitable for use on computer networks.

8 A new family of authentication protocols

Ross Anderson, Francesco Bergadano, Bruno Crispo, Jong-Hyeon Lee, Charalampos Maniavas, Roger Needham

October 1998 **ACM SIGOPS Operating Systems Review**, Volume 32 Issue 4

Full text available:  [pdf\(821.42 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

We present a related family of authentication and digital signature protocols based on symmetric cryptographic primitives which perform substantially better than previous constructions. Previously, one-time digital signatures based on hash functions involved hundreds of hash function computations for each signature; we show that given online access to a timestamping service, we can sign messages using only two computations of a hash function. Previously, techniques to sign infinite streams invol ...

Keywords: authentication, hashing, non-repudiation, timestamping

9 Hierarchical multiprocessor organizations

J. Archer Harris, David R. Smith

March 1977 **ACM SIGARCH Computer Architecture News , Proceedings of the 4th annual symposium on Computer architecture**, Volume 5 Issue 7

Full text available:  [pdf\(555.40 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The development of LSI components has induced a substantial research effort into the possibility of applying conglomerations of small processors on some computational problems previously limited to large processors. The primary advantages of "multi-microprocessor architectures" are their potential for improvements in cost, reliability, and possibly speed

over conventional large computers. However, the realization of these advantages requires improvements in the techniques necess ...

10 ID-based secret-key cryptography

Marc Joye, Sung-Ming Yen

October 1998 **ACM SIGOPS Operating Systems Review**, Volume 32 Issue 4

Full text available:  [pdf\(513.15 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper introduces *ID-based secret-key cryptography*, in which secret keys are privately and uniquely binded to an identity. This enables to extend public-key cryptography features at the high throughput rate of secret-key cryptography. As applications, efficient login protocols, an enhanced version of Kerberos, and an ID-based MAC algorithm are presented. ID-based systems were initially developed in the context of public-key cryptography by removing the need of explicit public keys. The ...

Keywords: ID-based systems, Kerberos, MACs, authentication protocols, one-time passwords, secret-key cryptography

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Terms used **arbiter transaction session**

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P. David Stotts, Richard Furuta, J. Cyrano Ruiz

December 1993 **Proceedings of the ACM conference on Hypertext**Full text available:  [pdf\(895.50 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**2** [Small forwarding tables for fast routing lookups](#)

Mikael Degermark, Andrej Brodnik, Svante Carlsson, Stephen Pink

October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 27 Issue 4Full text available:  [pdf\(1.62 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


For some time, the networking community has assumed that it is impossible to do IP routing lookups in software fast enough to support gigabit speeds. IP routing lookups must find the routing entry with the *longest matching prefix*, a task that has been thought to require hardware support at lookup frequencies of millions per second. We present a forwarding table data structure designed for quick routing lookups. Forwarding tables are small enough to fit in the cache of a conventional genera ...

3 [Local error recovery in SRM: comparison of two approaches](#)

Ching-Gung Liu, Deborah Estrin, Scott Shenker, Lixia Zhang

December 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 6Full text available:  [pdf\(539.49 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**4** [Xsketch: a multi-user sketching tool for X11](#)

J. J. Lee

March 1990 **ACM SIGOIS Bulletin , Proceedings of the conference on Office information systems**, Volume 11 Issue 2-3Full text available:  [pdf\(543.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This is a report of work-in-progress on a multi-user sketching tool. The intent behind the project is to produce a simple tool for use in multi-user design and brainstorming sessions. The tool, xsketch, is intended to function across existing internetwork facilities and run on a variety of platforms. This paper covers the requirements and design goals for the tool.

Details of a prototype implementation are given along with a list of known problems, shortcomings, and possible extensions.

5 Authentication using minimally trusted servers

Liqun Chen, Dieter Gollmann, Chris J. Mitchell

July 1997 **ACM SIGOPS Operating Systems Review**, Volume 31 Issue 3

Full text available:  [pdf\(821.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A number of key distribution protocols using multiple authentication servers, where a minority of them may be untrustworthy, have recently been proposed. This paper analyses the problem of key distribution using minimally trusted multiple servers, and presents a new protocol. In this protocol, as long as all servers do not collude to defraud the clients, either a session key (not known to any server) is successfully established, or the protocol fails in such a way that the clients are aware that ...

6 Packet reordering is not pathological network behavior

Jon C. R. Bennett, Craig Partridge, Nicholas Shectman

December 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 6

Full text available:  [pdf\(107.65 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Internet, communication system traffic, packet switching

7 Using metalevel techniques in a flexible toolkit for CSCW applications

Paul Dourish

June 1998 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 5 Issue 2

Full text available:  [pdf\(292.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Ideally, software toolkits for collaborative applications should provide generic, reusable components, applicable in a wide range of circumstances, which software developers can assemble to produce new applications. However, the nature of CSCW applications and the mechanics of group interaction present a problem. Group interactions are significantly constrained by the structure of the underlying infrastructure, below the level at which toolkits typically offer control. This article describe ...

Keywords: consistency control, consistency guarantees, data distribution, divergency, metalevel programming, open implementation, software architecture

8 Internet routing instability

Craig Labovitz, G. Robert Malan, Farnam Jahanian

October 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 5

Full text available:  [pdf\(277.43 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: communication system, communication system routing, computer network, internet, routing, stability

9 Conditional purchase orders

John Kelsey, Bruce Schneier


April 1997 **Proceedings of the 4th ACM conference on Computer and communications security**

Full text available:  [pdf\(853.77 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

10 A modular multirate video distribution system: design and dimensioning

Yiu-Wing Leung, Tak-Shing Yum

December 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 6

Full text available:  [pdf\(1.28 MB\)](#)


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11 Consistency guarantees: exploiting application semantics for consistency management in a collaboration toolkit

Paul Dourish

November 1996 **Proceedings of the 1996 ACM conference on Computer supported cooperative work**

Full text available:  [pdf\(1.30 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)




Keywords: CSCW toolkits, Prospero, application control, consistency guarantees, consistency management

12 An architectural approach to minimizing feature interactions in telecommunications

Israel Zibman, Carl Woolf, Peter O'Reilly, Larry Strickland, David Willis, John Visser

August 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 4

Full text available:  [pdf\(1.55 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)



13 Towards a taxonomy of software connectors

Nikunj R. Mehta, Nenad Medvidovic, Sandeep Phadke

June 2000 **Proceedings of the 22nd international conference on Software engineering**

Full text available:  [pdf\(184.27 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)




Software systems of today are frequently composed from prefabricated, heterogeneous components that provide complex functionality and engage in complex interactions. Existing research on component-based development has mostly focused on component structure, interfaces, and functionality. Recently, software architecture has emerged as an area that also places significant importance on component interactions, embodied in the notion of software connectors. However, the current level of underst ...

Keywords: classification, software architecture, software connector, taxonomy

14 MusicFX: an arbiter of group preferences for computer supported collaborative workouts

Joseph F. McCarthy, Theodore D. Anagnost

November 1998 **Proceedings of the 1998 ACM conference on Computer supported cooperative work**

Full text available:  [pdf\(1.14 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)




Keywords: audio, audiospaces, empirical studies, evaluation, human-computer interaction, intelligent environments, shared spaces, social behavior, social interactions, ubiquitous computing

15 Internet routing instability

Craig Labovitz, G. Robert Marjan, Farnam Jahanian

October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 27 Issue 4

Full text available:  [pdf\(1.95 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper examines the network inter-domain routing information exchanged between backbone service providers at the major U.S. public Internet exchange points. Internet routing instability, or the rapid fluctuation of network reachability information, is an important problem currently facing the Internet engineering community. High levels of network instability can lead to packet loss, increased network latency and time to convergence. At the extreme, high levels of routing instability have lea ...

16 A long-term perspective on electronic commerce

Eric Hughes

November 1997 **netWorker**, Volume 1 Issue 3


Full text available:  [pdf\(535.69 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

17 Automated assistance for program restructuring

William G. Griswold, David Notkin

July 1993 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 2 Issue 3

Full text available:  [pdf\(2.87 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Maintenance tends to degrade the structure of software, ultimately making maintenance more costly. At times, then, it is worthwhile to manipulate the structure of a system to make changes easier. However, manual restructuring is an error-prone and expensive activity. By separating structural manipulations from other maintenance activities, the semantics of a system can be held constant by a tool, assuring that no errors are introduced by restructuring. To allow the maintenance team to focus ...

Keywords: CASE, flow analysis, meaning-preserving transformations, software engineering, software evolution, software maintenance, software restructuring, source-level restructuring

18 Whiteboards: a graphical database tool

James Donahue, Jennifer Widom

January 1986 **ACM Transactions on Information Systems (TOIS)**, Volume 4 Issue 1

Full text available:  [pdf\(1.41 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The "Whiteboards" system is intended to be an electronic equivalent of the whiteboards and corkboards that we have in our offices. A Whiteboard database has similar qualities of storing disparate collections of data and saving their spatial location in a window to help with organization. A Whiteboard database can contain references to arbitrary entities: text files, notes, programs, tools, pictures, etc. Whiteboards runs as an application in the Cedar programming environment dev ...

19 Session 9B: communication architectures design and analysis: Latency-guided on-chip bus network design

Milenko Drinic, Darko Kirovski, Seapahn Meguerdichian, Miodrag Potkonjak

November 2000 **Proceedings of the 2000 IEEE/ACM international conference on Computer-aided design**

Full text available:  [pdf\(303.09 KB\)](#)


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Deep submicron technology scaling has two major ramifications on the design process. First, reduced feature size significantly increases wire delay, thus resulting in critical paths being dominated by global interconnect rather than gate delays. Second, ultra high level of integration mandates design of systems-on-chip that encompass numerous intra-synchronous blocks with decreased functional granularity and increased communication demands. To address these issues we have developed an on-chip bu ...

20 Session 8B: embedded systems power management and validation: A data flow fault coverage metric for validation of behavioral HDL descriptions

Qiushuang Zhang, Ian G. Harris

November 2000 **Proceedings of the 2000 IEEE/ACM international conference on Computer-aided design**

Full text available:  pdf(65.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Behavioral HDL descriptions are commonly used to capture the high-level functionality of a hardware circuit for simulation and synthesis. The manual process of creating a behavioral description is error prone, so significant effort must be made to verify the correctness of behavioral descriptions. Simulation-based validation and formal verification are both techniques used to verify correctness. We investigate validation because formal verification techniques are frequently intractable for large ...

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Result page: [previous](#) [1](#) [2](#)Relevance scale ☐ ☐ ☐ ☐ ☐**21 [A spatially-adaptive bus interface for low-switching communication \(poster session\)](#)**


Andrea Acquaviva, Riccardo Scarsi

August 2000 **Proceedings of the 2000 international symposium on Low power electronics and design**Full text available:  [pdf\(181.90 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Adaptive encoding has shown to be an effective approach to bus power minimization in situations where characterization of the input statistics is not available. In this paper, we propose a novel technique for adaptive bus encoding that, conversely from existing solutions, exploits spatial correlations in the input data being transmitted to increase the accuracy in the dynamic selection of the encoding function. We discuss the encoding algorithm and we describe an architecture for its implem ...

22 [A hundred impossibility proofs for distributed computing](#)

N. Lynch

June 1989 **Proceedings of the eighth annual ACM Symposium on Principles of distributed computing**Full text available:  [pdf\(3.42 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**23 [Adaptive solutions to the mutual exclusion problem](#)**

Manhoi Choy, Ambuj K. Singh

September 1993 **Proceedings of the twelfth annual ACM symposium on Principles of distributed computing**Full text available:  [pdf\(874.33 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**24 [Using smartcards to secure a personalized gambling device](#)**

William A. Aiello, Aviel D. Rubin, Martin J. Strauss

November 1999 **Proceedings of the 6th ACM conference on Computer and communications security**Full text available:  [pdf\(762.94 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce a technique for using an untrusted device, such as a hand-held personal digital assistant or a laptop to perform real financial transactions without a network. We utilize the tamper-resistant nature of smartcards to store value on them and perform probabilistic computations based on user input. We discuss an application of this to gambling. The technique has the properties that the user is guaranteed to make money when he wins and

the house is guaranteed to make money w ...

25 Software economics: a roadmap

Barry W. Boehm, Kevin J. Sullivan

May 2000 **Proceedings of the conference on The future of Software engineering**

Full text available:  [pdf\(2.58 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

26 Formal representation of a conceptual knowledge model for a database based expert system

Ramin Yasdi

December 1985 **Proceedings of the twenty-first annual conference on Computer personnel research**

Full text available:  [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the actual penetration of expert systems into the business world, the question is, how can expert systems be used to enhance the existing information systems with more intelligence in usage and operation. This interest is not surprising due to the advancement of the fifth generation of computer technology and avid interest in the field of Artificial Intelligence. This paper presents a conceptual model for analysing complex real world problems. The model, known as the Concept ...

27 The PIM architecture for wide-area multicast routing

Stephen Deering, Deborah L. Estrin, Dino Farinacci, Van Jacobson, Ching-Gung Liu, Liming Wei
April 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 2

Full text available:  [pdf\(1.09 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

28 Experience Using Multiprocessor Systems—A Status Report

Anita K. Jones, Peter Schwarz


June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2

Full text available:  [pdf\(4.48 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

29 Towards an object-centered database language

Martin L. Kersten, Frans H. Schippers

September 1986 **Proceedings on the 1986 international workshop on Object-oriented database systems**

Full text available:  [pdf\(752.30 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this report we discuss ongoing research in the area of object-oriented database systems at the CWI. The central theme of this paper is the friction encountered when using an object-oriented (O-O) language, such as Smalltalk, in the database arena. A series of (open) database issues is given for which the object-oriented paradigm does not provide an elegant solution. A refinement of the O-O concepts is given which emphasizes the dynamic classification of objects through its characteristic ...

30 Bibliography of recent publications on computer communication

Martha Sreenstrup


October 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 5

Full text available:  [pdf\(1.44 MB\)](#) Additional Information: [full citation](#), [index terms](#)

NSF workshop on a software research program for the 21st century

Victor R. Basili, Laszlo Belady, Barry Boehm, Frederick Brooks, James Browne, Richard DeMillo, Stuart I. Feldman, Cordell Green, Butler Lampson, Duncan Lawrie, Nancy Leveson, Nancy Lynch, Mark Weiser, Jeannette Wing

May 1999 **ACM SIGSOFT Software Engineering Notes**, Volume 24 Issue 3

Full text available:  [pdf\(1.29 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

**32 Efficient power co-estimation techniques for system-on-chip design**

Marcello Lajolo, Anand Raghunathan, Sujit Dey

January 2000 **Proceedings of the conference on Design, automation and test in Europe**

Full text available:  [pdf\(124.92 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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33 Community design of DLESE's collections review policy: a technological frames analysis

Michael Khoo

January 2001 **Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  [pdf\(194.46 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, I describe the design of a collection review policy for the Digital Library for Earth System Education (DLESE). A distinctive feature of DLESE as a digital library is the "DLESE community", composed of voluntary members who contribute metadata and resource reviews to DLESE. As the DLESE community is open, the question of how to evaluate community contributions is a crucial part of the review policy design process. In this paper, technological frames theory is used ...

Keywords: content analysis, decision making, design, digital library, ethnography, peer review, technological frames

34 Password authentication with insecure communication

Leslie Lamport

November 1981 **Communications of the ACM**, Volume 24 Issue 11

Full text available:  [pdf\(303.52 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A method of user password authentication is described which is secure even if an intruder can read the system's data, and can tamper with or eavesdrop on the communication between the user and the system. The method assumes a secure one-way encryption function and can be implemented with a microcomputer in the user's terminal.

Keywords: authentication, one-way function, passwords, security

35 CODASYL Data-Base Management Systems

Robert W. Taylor, Randall L. Frank

January 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 1

Full text available:  [pdf\(2.82 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

36 Preliminary summary: FM89 assessment of formal methods for trustworthy computer systems

S. Gerhart


November 1989 **ACM SIGSOFT Software Engineering Notes , Proceedings of the ACM SIGSOFT '89 third symposium on Software testing, analysis, and verification**, Volume 14 Issue 8

Full text available:  pdf(424.80 KB) Additional Information: [full citation](#), [citations](#), [index terms](#)

37 An analysis of BGP convergence properties

Timothy G. Griffin, Gordon Wilfong

August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 29 Issue 4

Full text available:  pdf(1.35 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Border Gateway Protocol (BGP) is the *de facto* inter-domain routing protocol used to exchange reachability information between Autonomous Systems in the global Internet. BGP is a path-vector protocol that allows each Autonomous System to override distance-based metrics with policy-based metrics when choosing best routes. Varadhan *et al.* [18] have shown that it is possible for a group of Autonomous Systems to independently define BGP policies that together lead to BGP protocol os ...

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